

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102414\
 Data File : BE088230.D
 Acq On : 25 Oct 2014 3:54
 Operator : TP/JJ
 Sample : PB79739BS
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB79839BS

Quant Time: Oct 27 13:46:44 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102414.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 27 13:04:40 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.11	152	24984	5.00	ng	0.00
3) Naphthalene-d8	8.68	136	100030	5.00	ng	0.00
7) Acenaphthene-d10	10.82	164	55333	5.00	ng	0.00
12) Phenanthrene-d10	12.94	188	114753	5.00	ng	0.00
16) Chrysene-d12	18.35	240	64946	5.00	ng	0.00
22) Perylene-d12	21.40	264	50681	5.00	ng	0.00

System Monitoring Compounds						
4) Nitrobenzene-d5	7.80	82	49524	6.66	ng	0.00
8) 2-Fluorobiphenyl	10.01	172	98616	6.39	ng	0.00
18) Terphenyl-d14	16.11	244	93164	8.76	ng	0.00

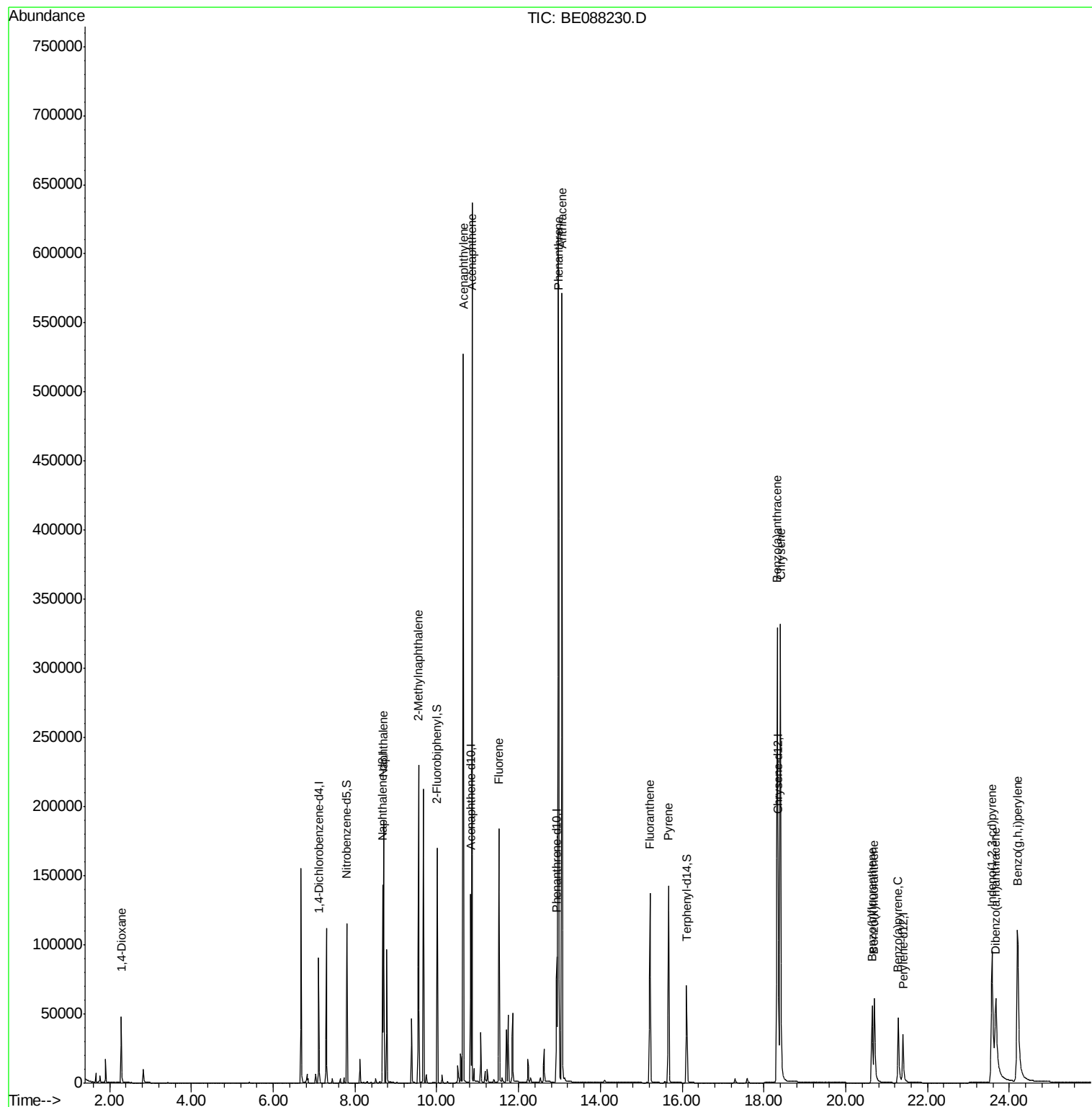
Target Compounds				Qvalue		
2) 1,4-Dioxane	2.29	88	25147	7.22	ng	97
5) Naphthalene	8.70	128	144067	7.08	ng	98
6) 2-Methylnaphthalene	9.55	142	95100	7.75	ng	96
9) Acenaphthylene	10.65	152	537357	6.50	ng	99
10) Acenaphthene	10.86	154	81163	6.20	ng	99
11) Fluorene	11.52	166	94111	7.05	ng	100
13) Phenanthrene	12.97	178	688811	6.22	ng	97
14) Anthracene	13.06	178	570971	6.99	ng	99
15) Fluoranthene	15.21	202	131513	7.83	ng	99
17) Pyrene	15.67	202	140094	7.86	ng	99
19) Benzo(a)anthracene	18.32	228	410099	8.02	ng	99
20) Chrysene	18.40	228	420937	7.25	ng	100
21) Indeno(1,2,3-cd)pyrene	23.58	276	191134	3.26	ng	# 75
23) Benzo(b)fluoranthene	20.64	252	79261	7.35	ng	98
24) Benzo(k)fluoranthene	20.70	252	100508	7.68	ng	99
25) Benzo(a)pyrene	21.28	252	75736	7.09	ng	98
26) Dibenzo(a,h)anthracene	23.68	278	55005	5.41	ng	96
27) Benzo(g,h,i)perylene	24.20	276	258845	6.37	ng	97

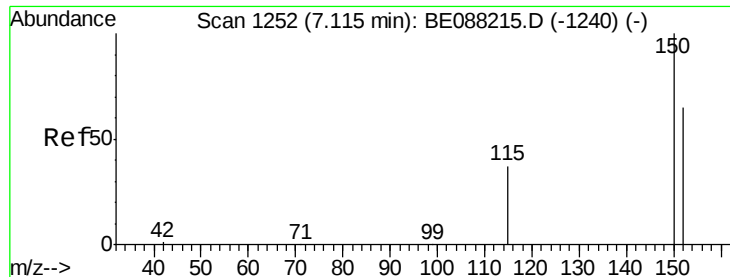
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.11 min Scan# 1252

Delta R.T. -0.00 min

Lab File: BE088230.D

Acq: 25 Oct 2014 3:54

Instrument :

BNA_E

ClientSampleId :

PB79839BS

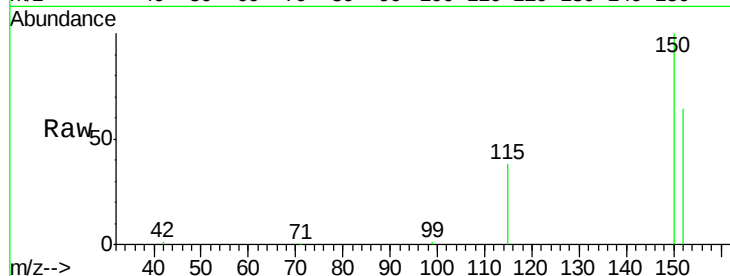
Tgt Ion:152 Resp: 24984

Ion Ratio Lower Upper

152 100

150 157.1 123.2 184.8

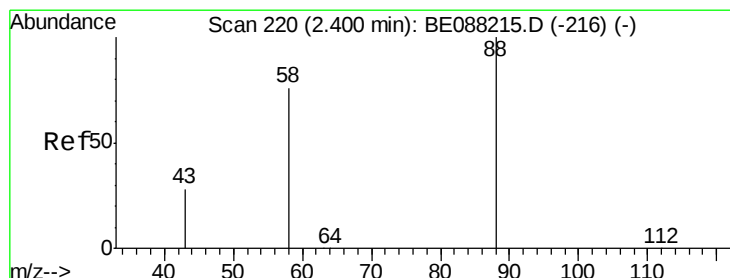
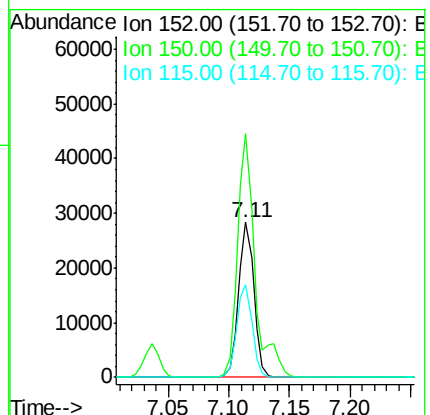
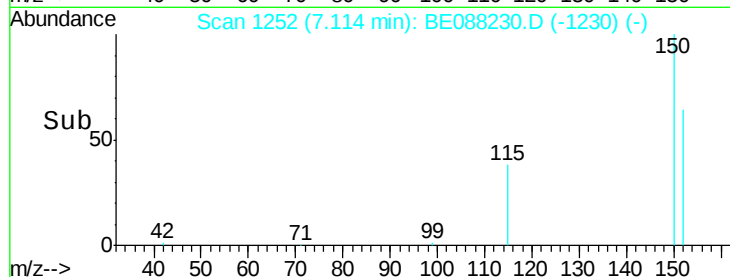
115 59.8 45.3 67.9



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 7.22 ng

RT: 2.29 min Scan# 196

Delta R.T. -0.11 min

Lab File: BE088230.D

Acq: 25 Oct 2014 3:54

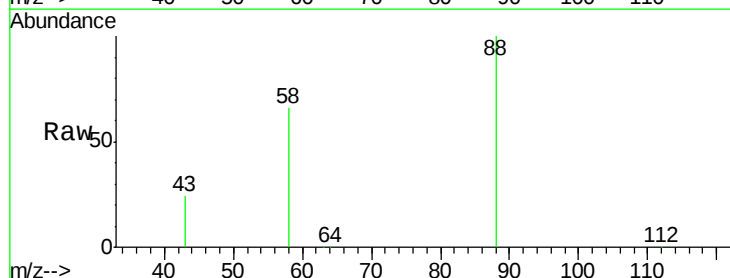
Tgt Ion: 88 Resp: 25147

Ion Ratio Lower Upper

88 100

58 76.4 59.0 88.4

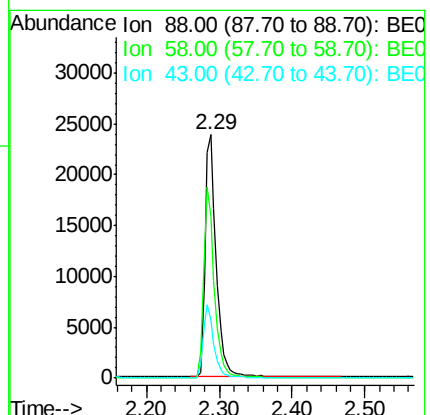
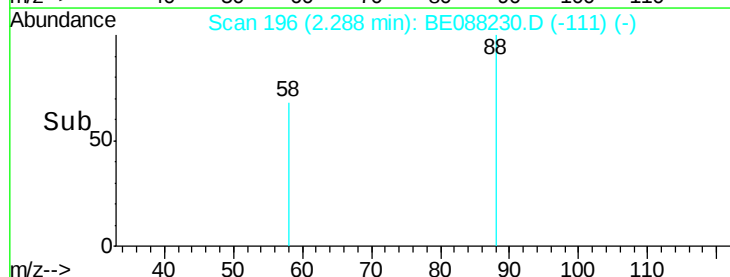
43 28.8 21.9 32.9

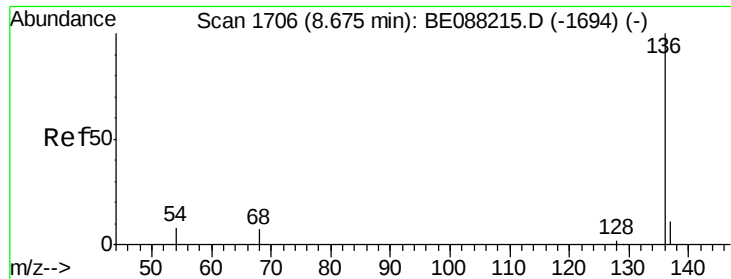


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.68 min Scan# 1707

Delta R.T. 0.00 min

Lab File: BE088230.D

Acq: 25 Oct 2014 3:54

Instrument :

BNA_E

ClientSampleId :

PB79839BS

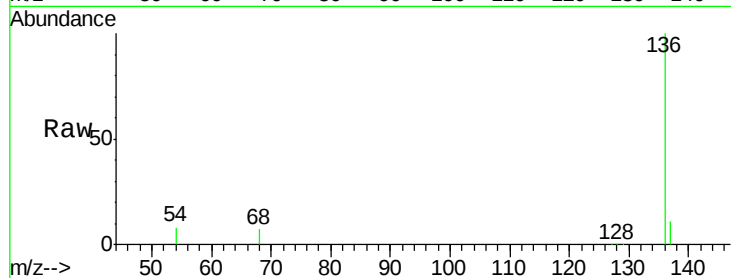
Tgt Ion: 136 Resp: 100030

Ion Ratio Lower Upper

136 100

137 11.1 8.7 13.1

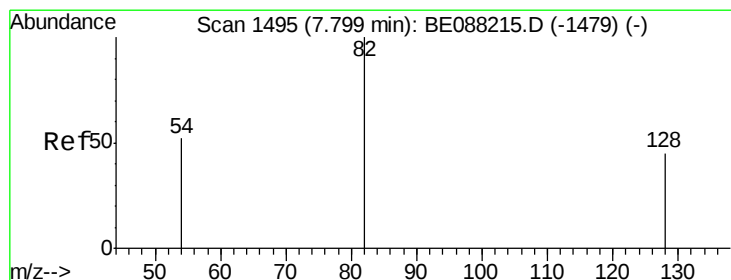
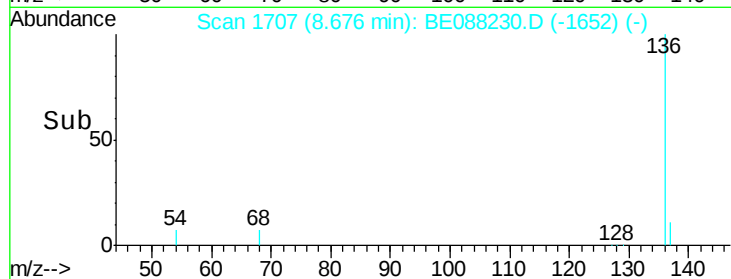
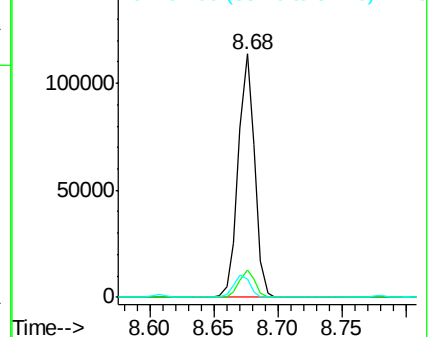
54 7.5 6.1 9.1



Abundance Ion 136.00 (135.70 to 136.70): BE088230.D (-1652) (-)

Ion 137.00 (136.70 to 137.70): BE088230.D (-1652) (-)

Ion 54.00 (53.70 to 54.70): BE088230.D (-1652) (-)



#4

Nitrobenzene-d5

Concen: 6.66 ng

RT: 7.80 min Scan# 1496

Delta R.T. 0.00 min

Lab File: BE088230.D

Acq: 25 Oct 2014 3:54

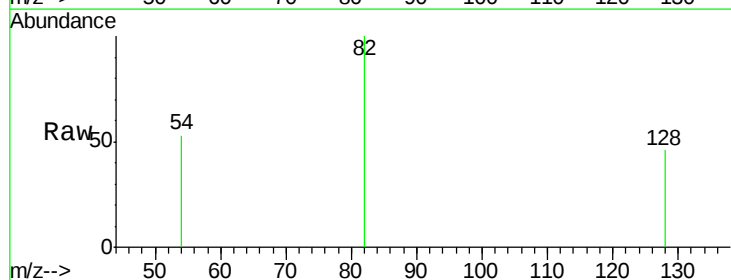
Tgt Ion: 82 Resp: 49524

Ion Ratio Lower Upper

82 100

128 46.5 36.2 54.2

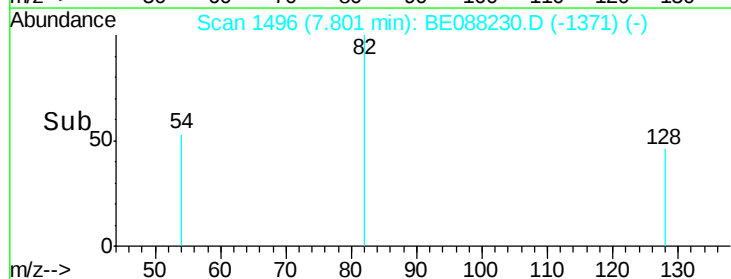
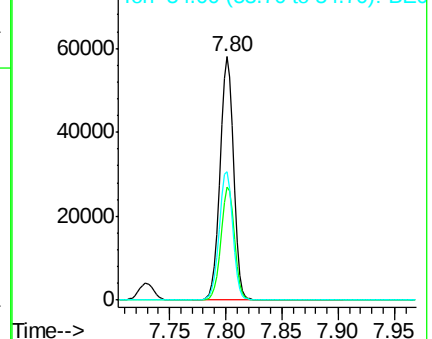
54 53.0 41.8 62.8

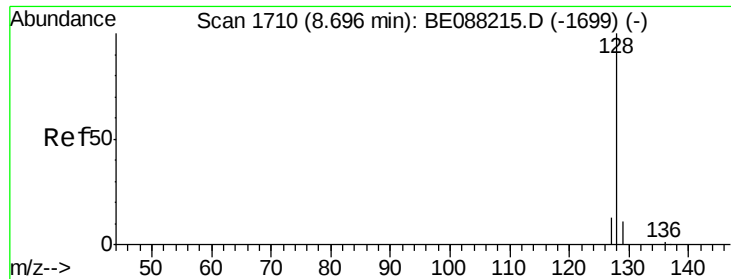


Abundance Ion 82.00 (81.70 to 82.70): BE088230.D (-1371) (-)

Ion 128.00 (127.70 to 128.70): BE088230.D (-1371) (-)

Ion 54.00 (53.70 to 54.70): BE088230.D (-1371) (-)





#5

Naphthalene

Concen: 7.08 ng

RT: 8.70 min Scan# 1712

Delta R.T. 0.01 min

Lab File: BE088230.D

Acq: 25 Oct 2014 3:54

Instrument :

BNA_E

ClientSampleId :

PB79839BS

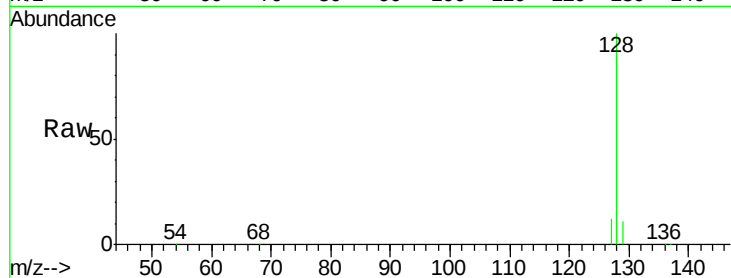
Tgt Ion:128 Resp: 144067

Ion Ratio Lower Upper

128 100

129 11.3 8.6 12.8

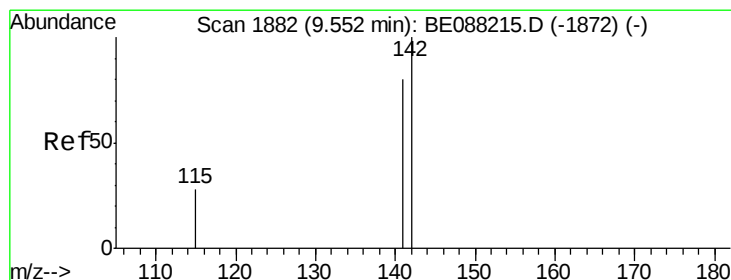
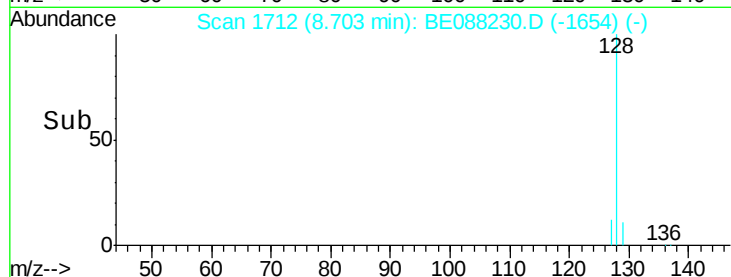
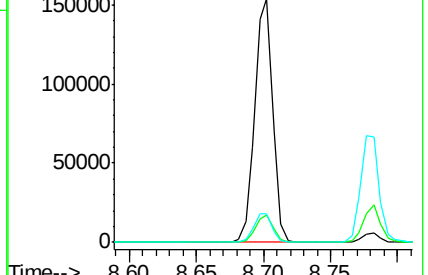
127 11.8 10.4 15.6



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#6

2-Methylnaphthalene

Concen: 7.75 ng

RT: 9.55 min Scan# 1883

Delta R.T. 0.00 min

Lab File: BE088230.D

Acq: 25 Oct 2014 3:54

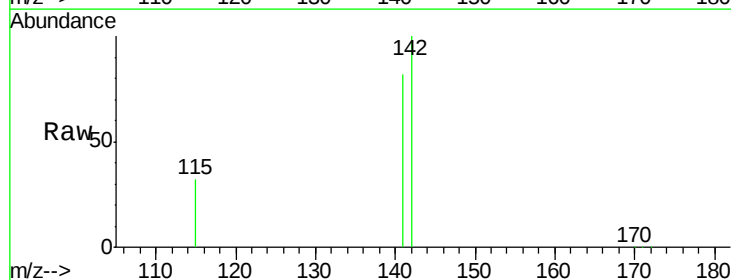
Tgt Ion:142 Resp: 95100

Ion Ratio Lower Upper

142 100

141 82.0 63.7 95.5

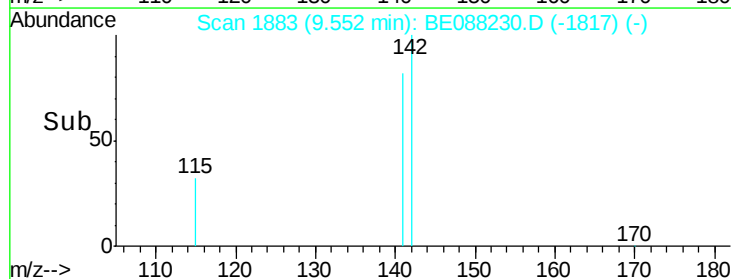
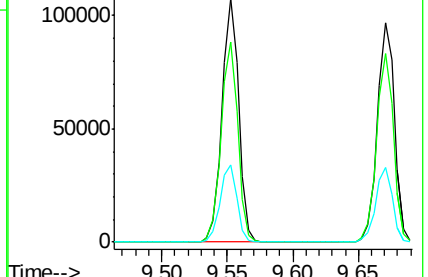
115 31.6 22.6 34.0

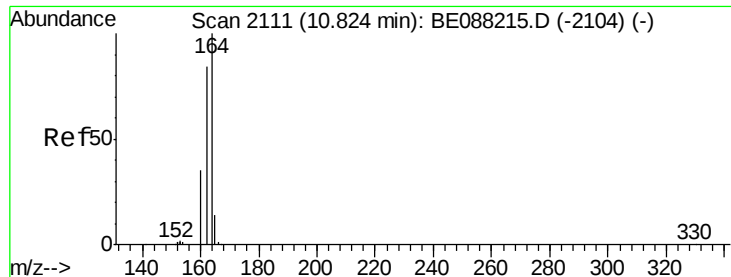


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.82 min Scan# 2112

Delta R.T. 0.00 min

Lab File: BE088230.D

Acq: 25 Oct 2014 3:54

Instrument :

BNA_E

ClientSampleId :

PB79839BS

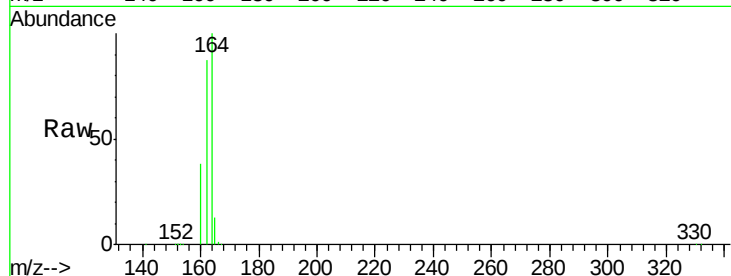
Tgt Ion:164 Resp: 55333

Ion Ratio Lower Upper

164 100

162 87.1 67.4 101.0

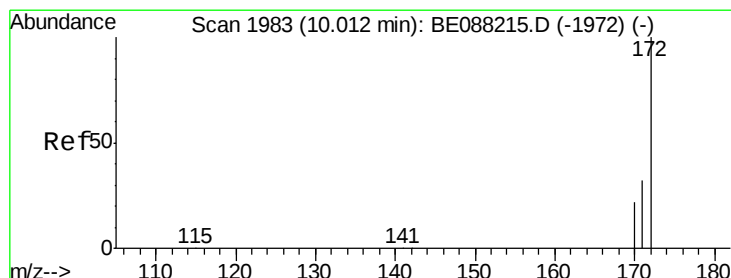
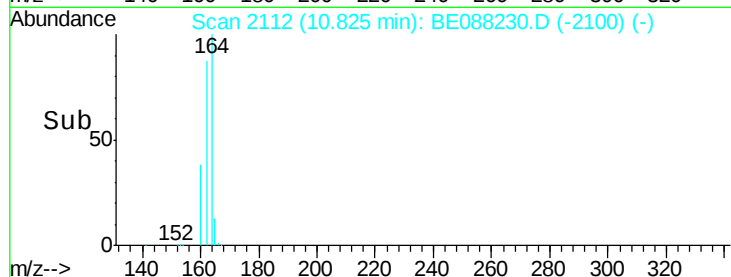
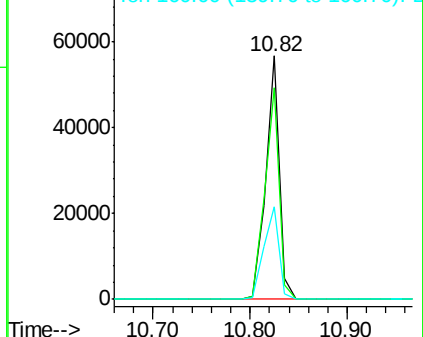
160 38.0 27.7 41.5



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#8

2-Fluorobiphenyl

Concen: 6.39 ng

RT: 10.01 min Scan# 1984

Delta R.T. 0.00 min

Lab File: BE088230.D

Acq: 25 Oct 2014 3:54

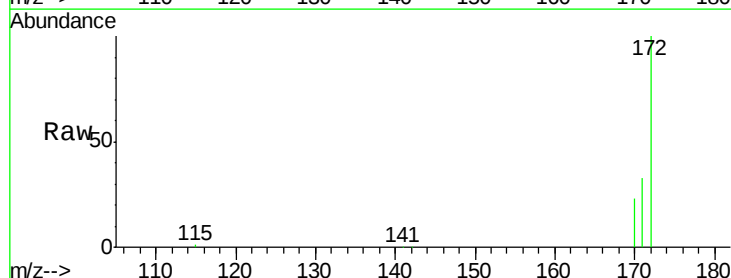
Tgt Ion:172 Resp: 98616

Ion Ratio Lower Upper

172 100

171 32.6 25.8 38.6

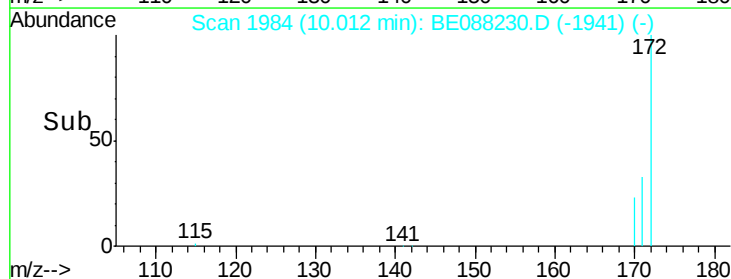
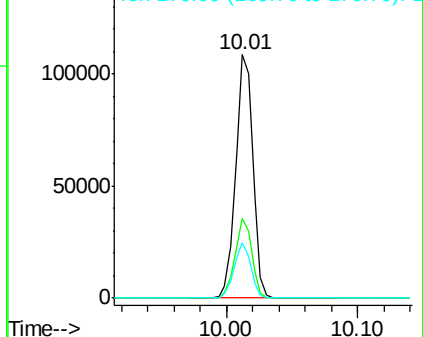
170 23.0 17.4 26.0

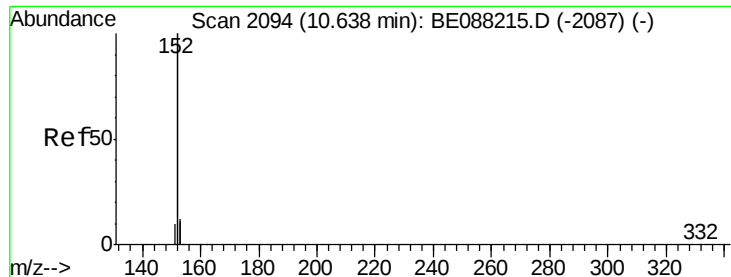


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 6.50 ng

RT: 10.65 min Scan# 2096

Delta R.T. 0.01 min

Lab File: BE088230.D

Acq: 25 Oct 2014 3:54

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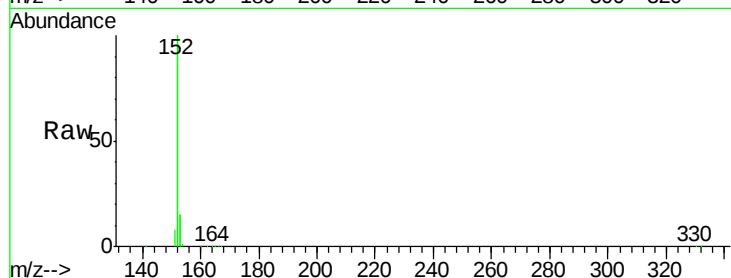
Tgt Ion:152 Resp: 537357

Ion Ratio Lower Upper

152 100

151 4.6 3.7 5.5

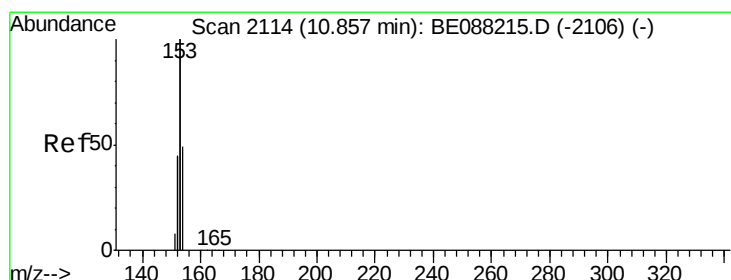
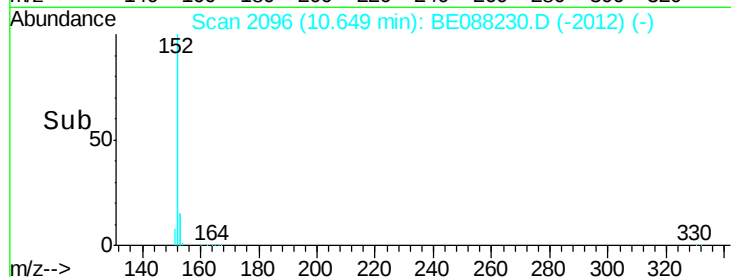
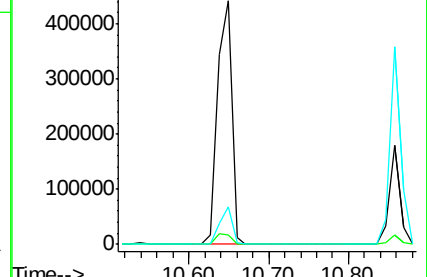
153 13.3 10.3 15.5



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#10

Acenaphthene

Concen: 6.20 ng

RT: 10.86 min Scan# 2115

Delta R.T. 0.00 min

Lab File: BE088230.D

Acq: 25 Oct 2014 3:54

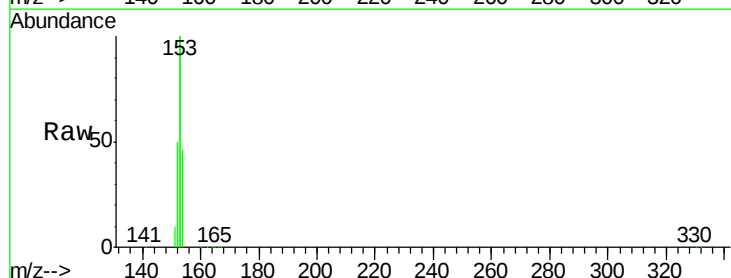
Tgt Ion:154 Resp: 81163

Ion Ratio Lower Upper

154 100

153 409.1 326.0 489.0

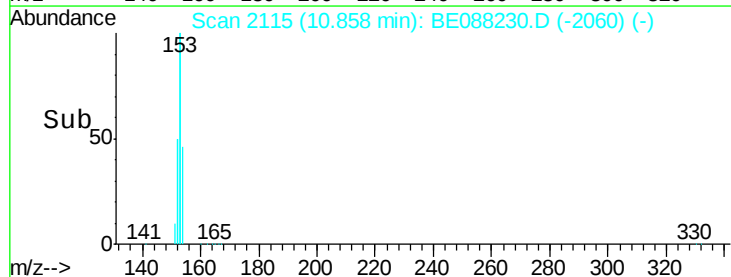
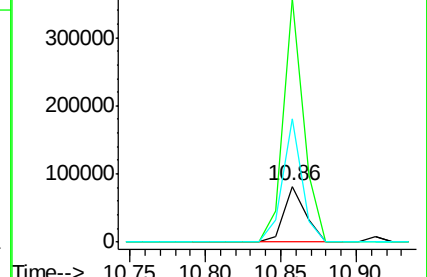
152 199.0 155.6 233.4

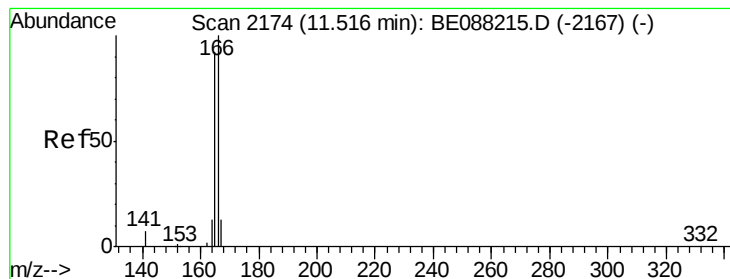


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#11

Fluorene

Concen: 7.05 ng

RT: 11.52 min Scan# 2175

Delta R.T. 0.00 min

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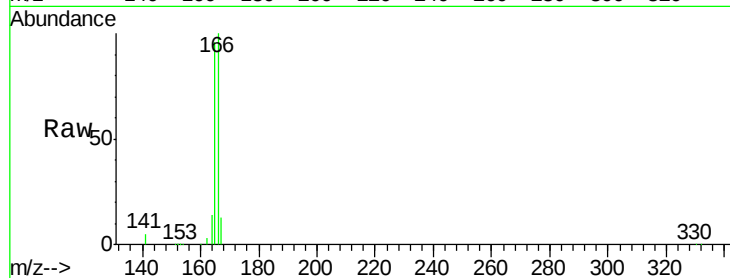
Tgt Ion:166 Resp: 94111

Ion Ratio Lower Upper

166 100

165 90.1 71.8 107.6

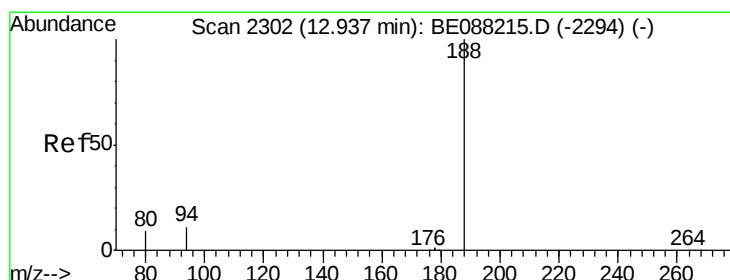
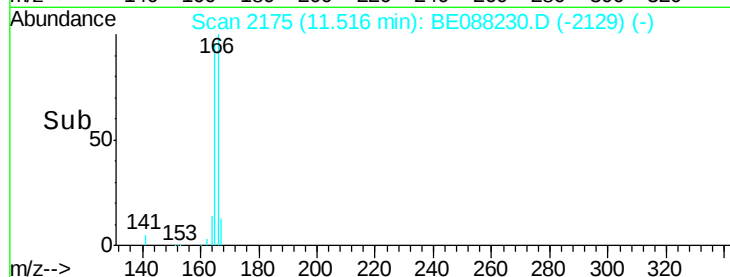
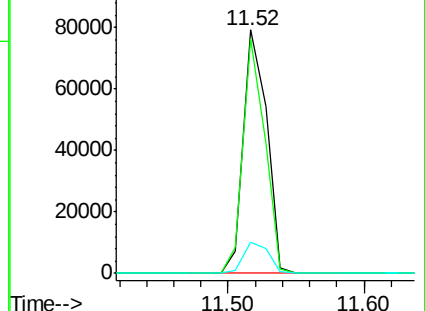
167 13.6 10.7 16.1



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#12

Phenanthrene-d10

Concen: 5.00 ng

RT: 12.94 min Scan# 2303

Delta R.T. -0.00 min

Lab File: BE088230.D

Acq: 25 Oct 2014 3:54

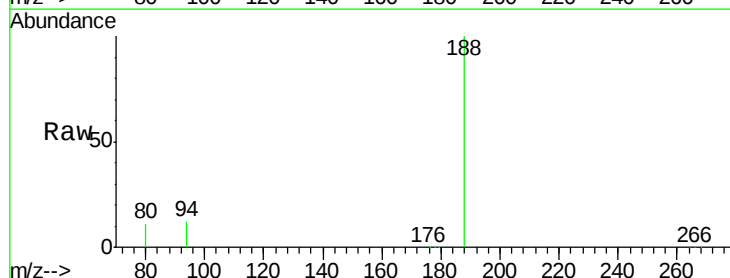
Tgt Ion:188 Resp: 114753

Ion Ratio Lower Upper

188 100

94 11.8 8.5 12.7

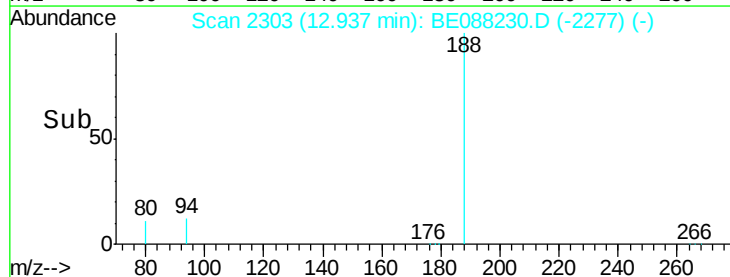
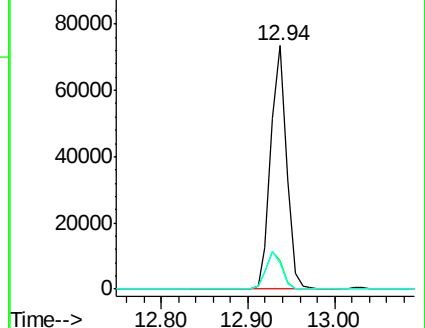
80 10.6 7.4 11.0

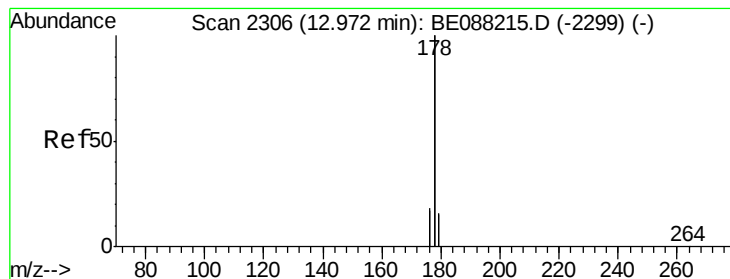


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#13

Phenanthrene

Concen: 6.22 ng

RT: 12.97 min Scan# 2307

Delta R.T. -0.00 min

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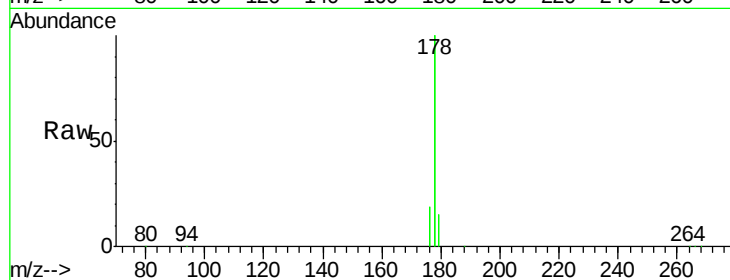
Tgt Ion:178 Resp: 688811

Ion Ratio Lower Upper

178 100

176 15.4 14.0 21.0

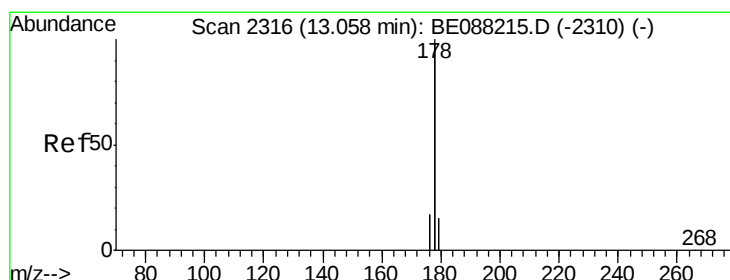
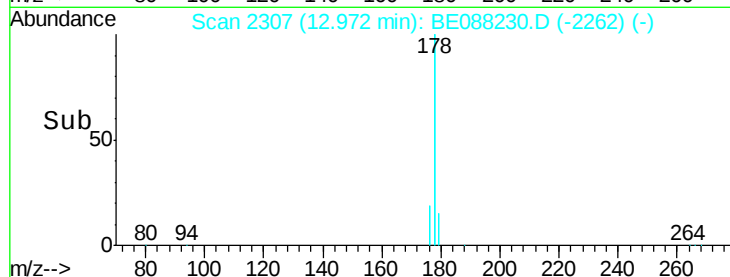
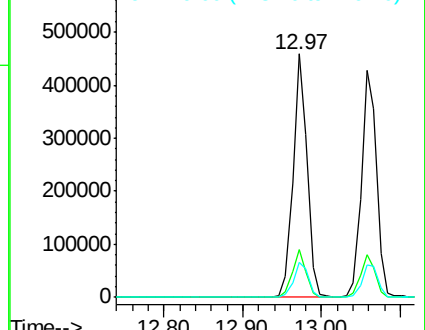
179 15.5 11.8 17.6



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#14

Anthracene

Concen: 6.99 ng

RT: 13.06 min Scan# 2317

Delta R.T. -0.00 min

Lab File: BE088230.D

Acq: 25 Oct 2014 3:54

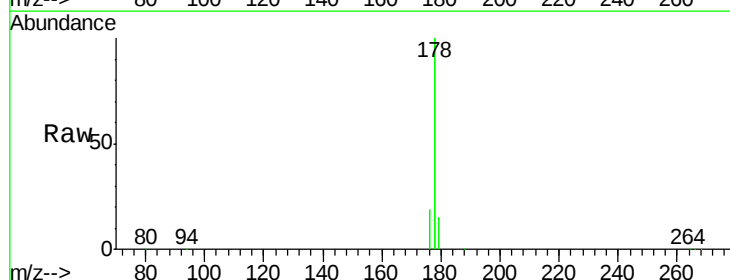
Tgt Ion:178 Resp: 570971

Ion Ratio Lower Upper

178 100

176 18.1 14.7 22.1

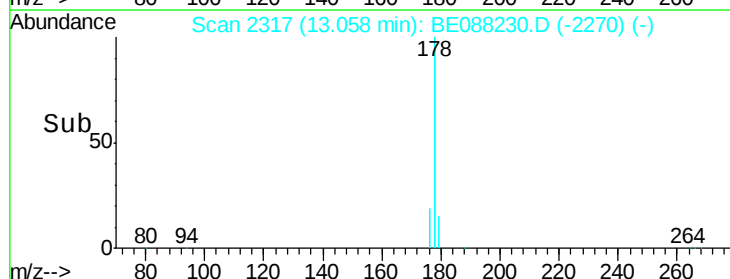
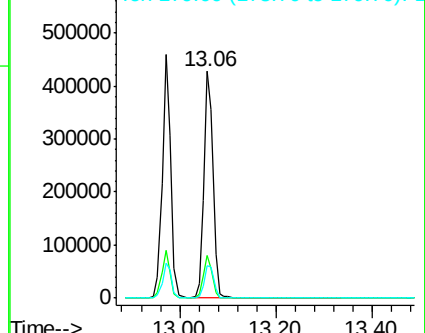
179 15.2 12.3 18.5

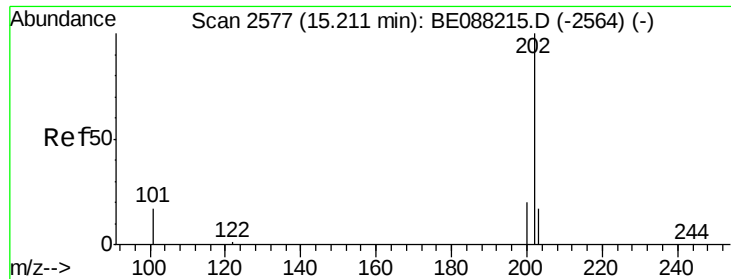


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

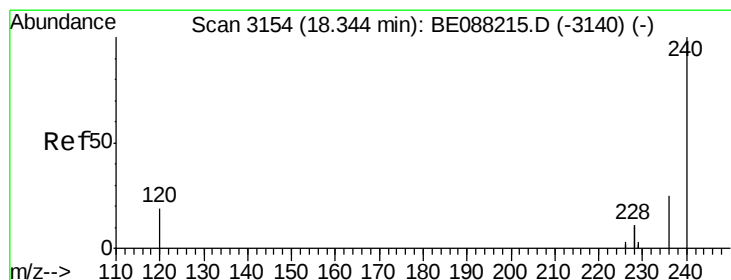
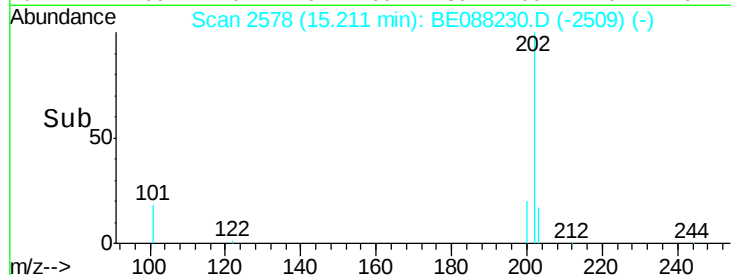
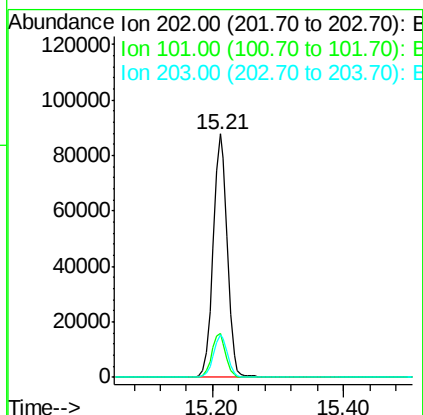
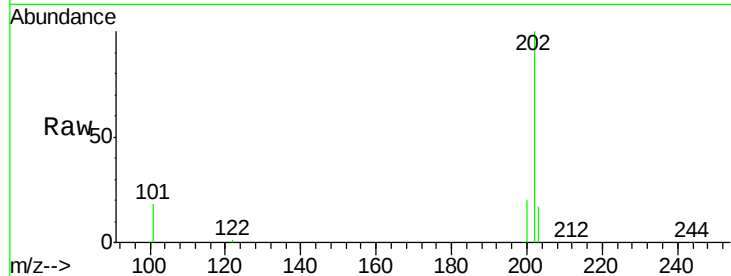




#15
 Fluoranthene
 Concen: 7.83 ng
 RT: 15.21 min Scan# 2578
 Delta R.T. 0.00 min
 Lab File: BE088230.D
 Acq: 25 Oct 2014 3:54

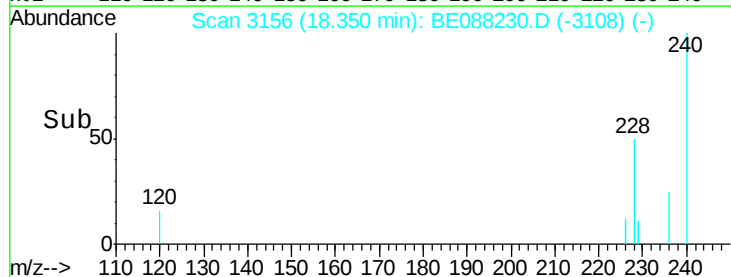
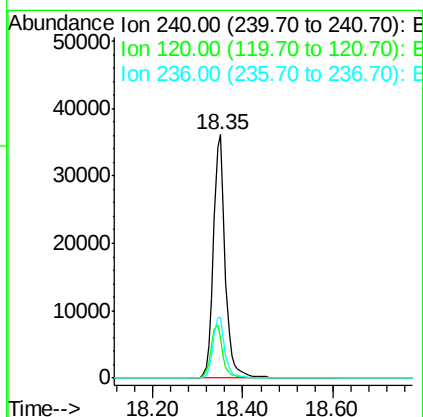
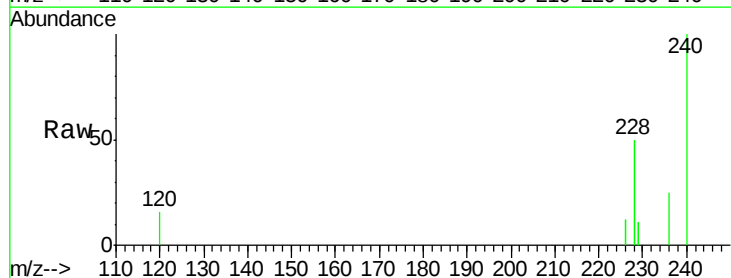
Instrument :
 BNA_E
 ClientSampleId :
 PB79839BS

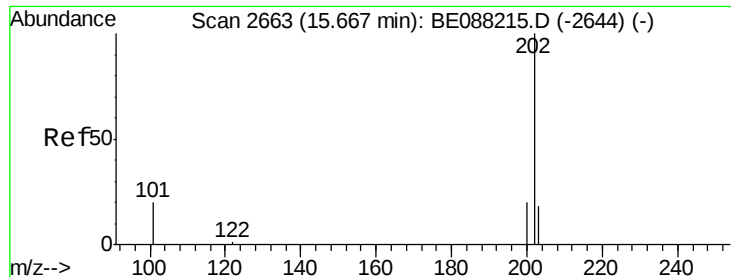
Tgt Ion: 202 Resp: 131513
 Ion Ratio Lower Upper
 202 100
 101 17.9 14.4 21.6
 203 17.3 13.4 20.2



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.35 min Scan# 3156
 Delta R.T. 0.01 min
 Lab File: BE088230.D
 Acq: 25 Oct 2014 3:54

Tgt Ion: 240 Resp: 64946
 Ion Ratio Lower Upper
 240 100
 120 16.2 15.1 22.7
 236 25.1 20.1 30.1

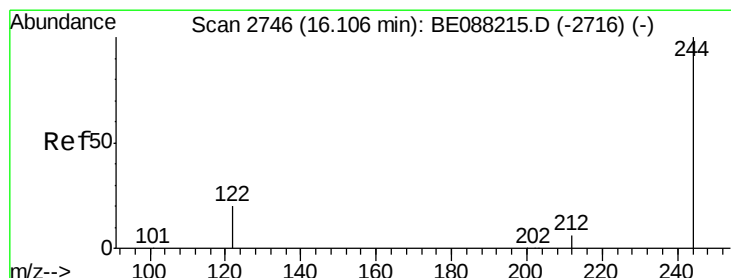
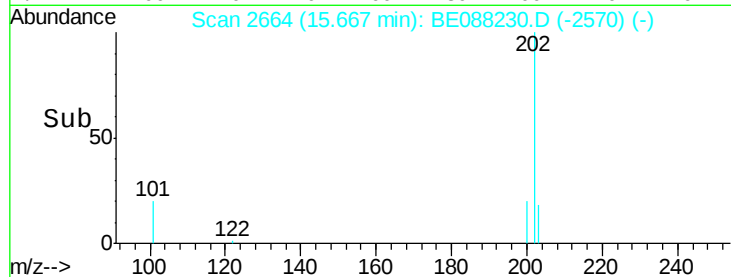
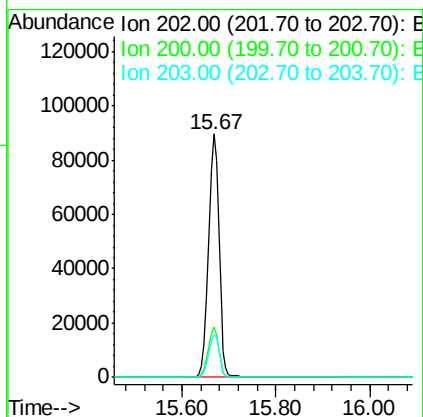
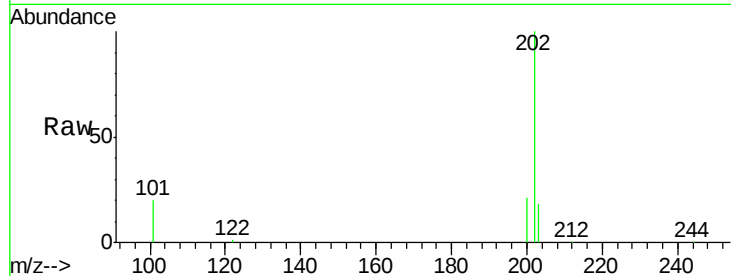




#17
 Pyrene
 Concen: 7.86 ng
 RT: 15.67 min Scan# 2664
 Delta R.T. 0.00 min
 Lab File: BE088230.D
 Acq: 25 Oct 2014 3:54

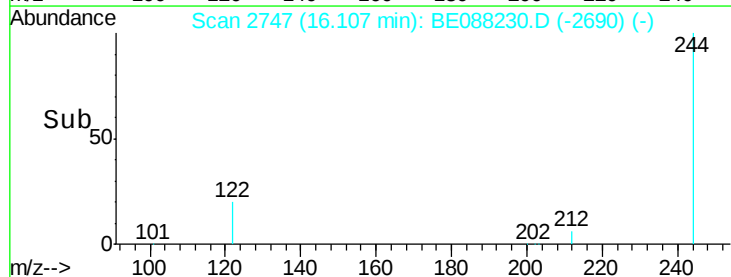
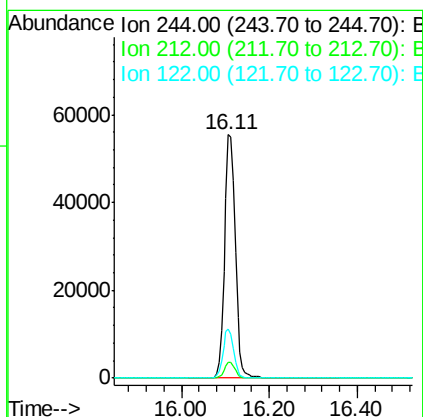
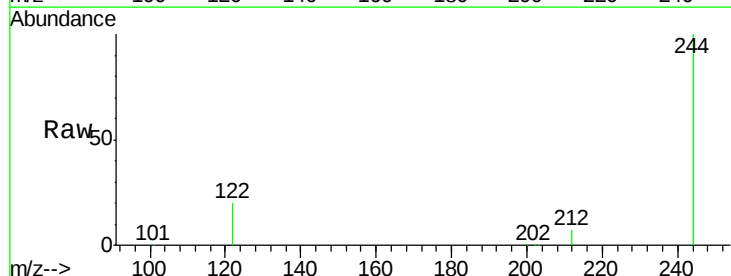
Instrument :
 BNA_E
 ClientSampleId :
 PB79839BS

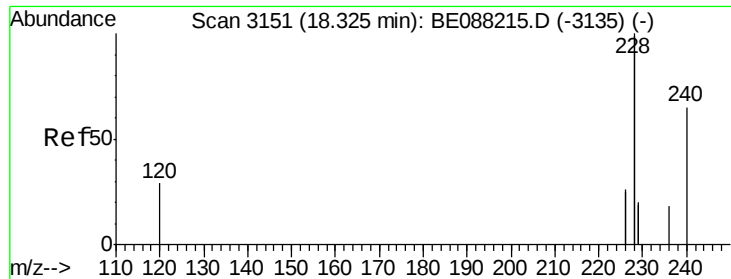
Tgt Ion: 202 Resp: 140094
 Ion Ratio Lower Upper
 202 100
 200 20.3 16.2 24.2
 203 17.9 13.8 20.8



#18
 Terphenyl-d14
 Concen: 8.76 ng
 RT: 16.11 min Scan# 2747
 Delta R.T. 0.00 min
 Lab File: BE088230.D
 Acq: 25 Oct 2014 3:54

Tgt Ion: 244 Resp: 93164
 Ion Ratio Lower Upper
 244 100
 212 6.6 5.4 8.2
 122 20.2 16.7 25.1





#19

Benzo(a)anthracene

Concen: 8.02 ng

RT: 18.32 min Scan# 3152

Delta R.T. -0.00 min

Lab File: BE088230.D

Acq: 25 Oct 2014 3:54

Instrument :

BNA_E

ClientSampleId :

PB79839BS

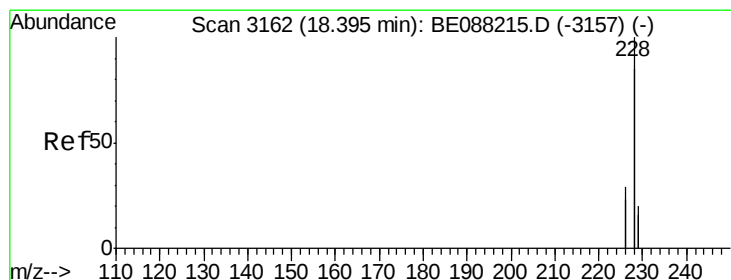
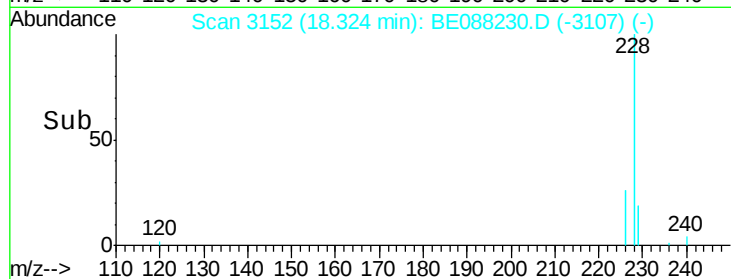
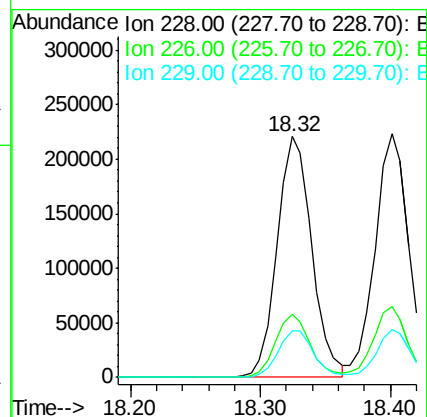
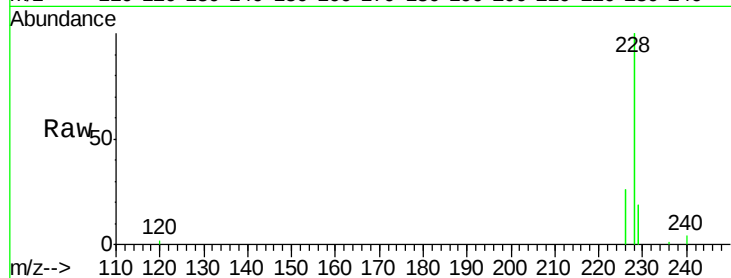
Tgt Ion:228 Resp: 410099

Ion Ratio Lower Upper

228 100

226 26.1 20.5 30.7

229 19.4 16.1 24.1



#20

Chrysene

Concen: 7.25 ng

RT: 18.40 min Scan# 3164

Delta R.T. 0.01 min

Lab File: BE088230.D

Acq: 25 Oct 2014 3:54

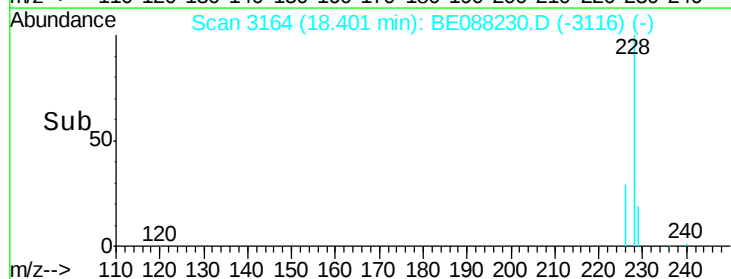
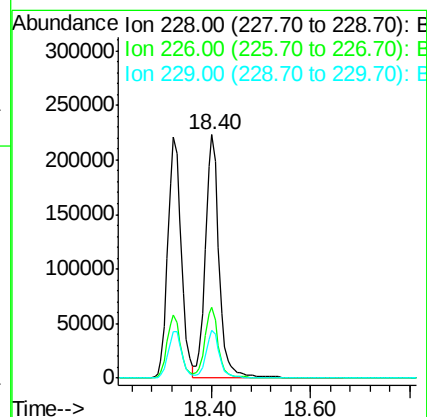
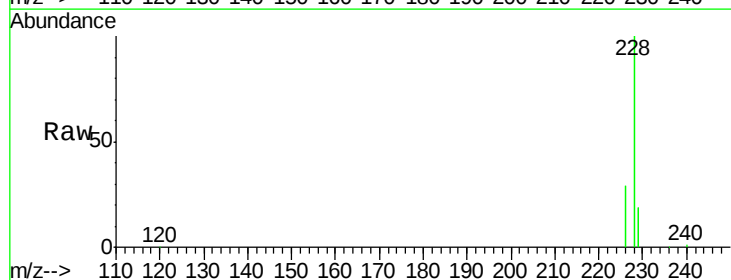
Tgt Ion:228 Resp: 420937

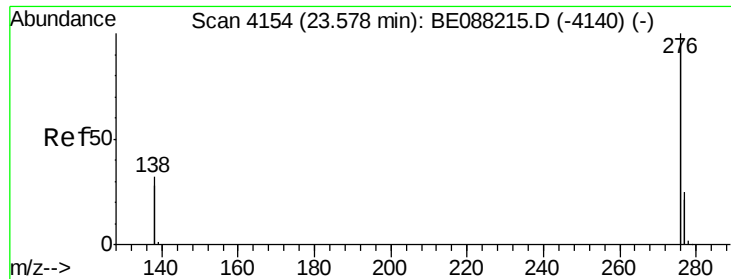
Ion Ratio Lower Upper

228 100

226 28.9 23.3 34.9

229 19.4 15.6 23.4





#21

Indeno(1,2,3-cd)pyrene

Concen: 3.26 ng

RT: 23.58 min Scan# 4155

Delta R.T. 0.00 min

Lab File: BE088230.D

Acq: 25 Oct 2014 3:54

Instrument :

BNA_E

ClientSampleId :

PB79839BS

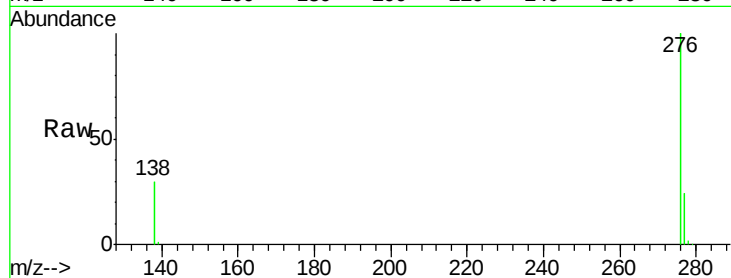
Tgt Ion:276 Resp: 191134

Ion Ratio Lower Upper

276 100

138 28.6 13.9 20.9#

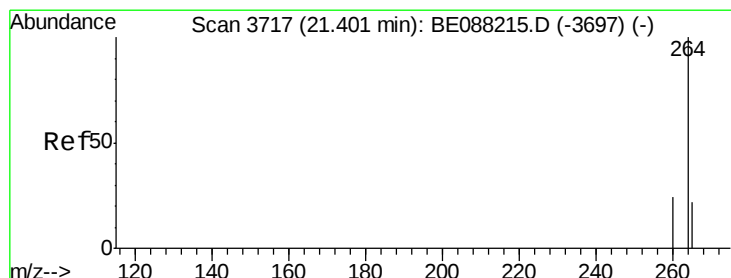
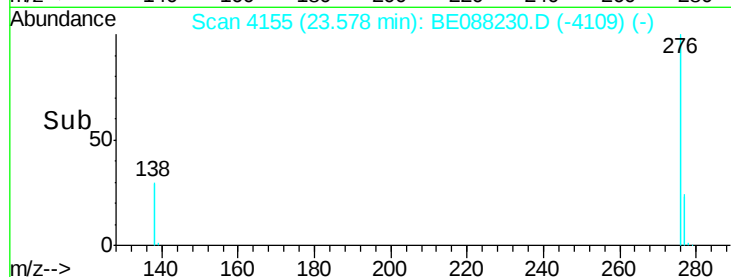
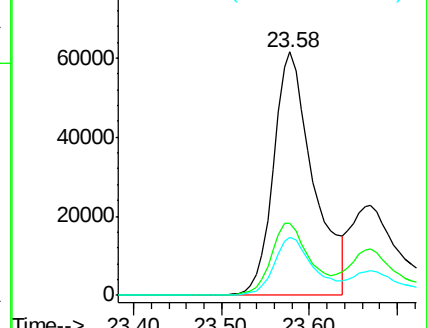
277 23.0 10.7 16.1#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#22

Perylene-d12

Concen: 5.00 ng

RT: 21.40 min Scan# 3718

Delta R.T. -0.00 min

Lab File: BE088230.D

Acq: 25 Oct 2014 3:54

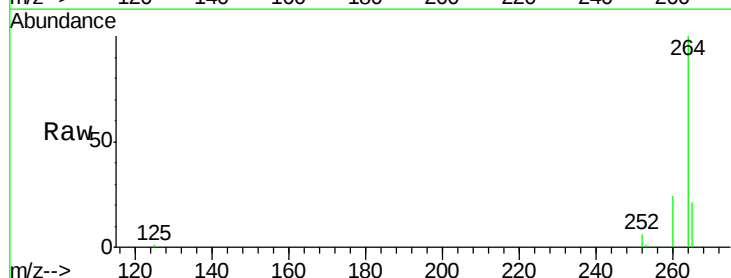
Tgt Ion:264 Resp: 50681

Ion Ratio Lower Upper

264 100

260 23.5 19.0 28.4

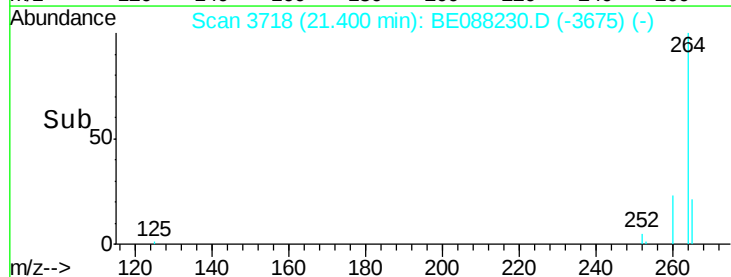
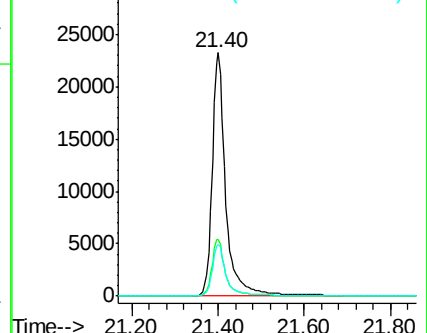
265 21.4 17.4 26.2

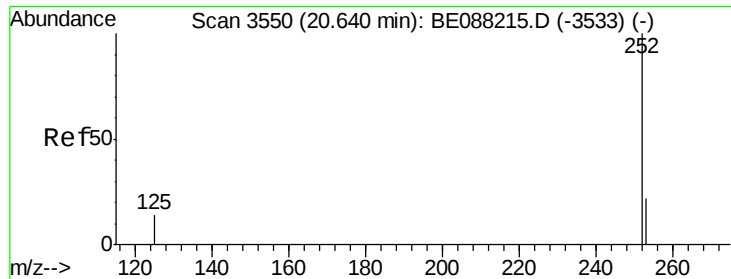


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 7.35 ng

RT: 20.64 min Scan# 3552

Delta R.T. 0.00 min

Lab File: BE088230.D

Acq: 25 Oct 2014 3:54

Instrument :

BNA_E

ClientSampleId :

PB79839BS

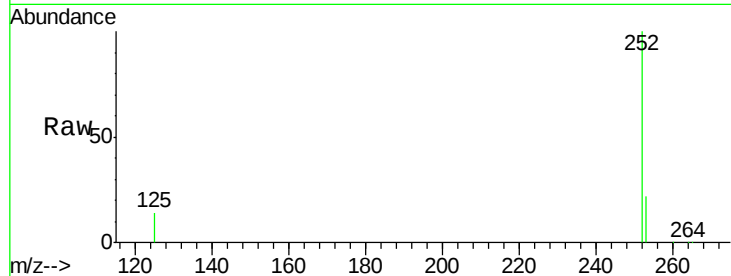
Tgt Ion:252 Resp: 79261

Ion Ratio Lower Upper

252 100

253 22.0 17.9 26.9

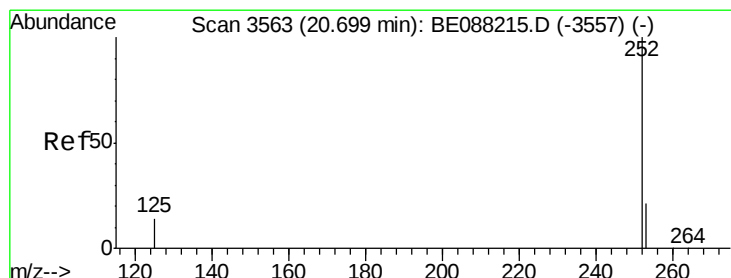
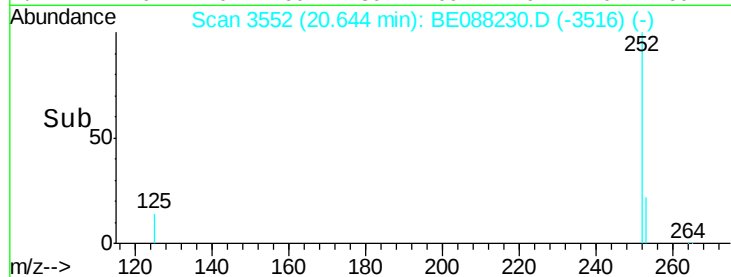
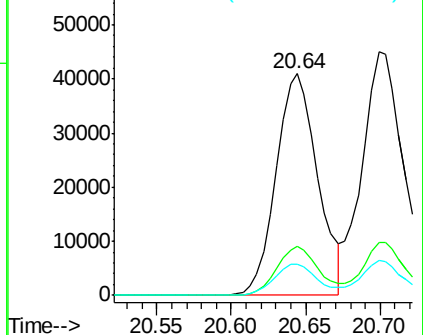
125 14.1 12.2 18.2



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#24

Benzo(k)fluoranthene

Concen: 7.68 ng

RT: 20.70 min Scan# 3564

Delta R.T. -0.00 min

Lab File: BE088230.D

Acq: 25 Oct 2014 3:54

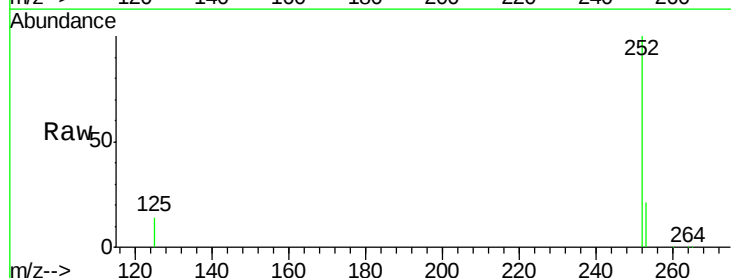
Tgt Ion:252 Resp: 100508

Ion Ratio Lower Upper

252 100

253 21.5 17.6 26.4

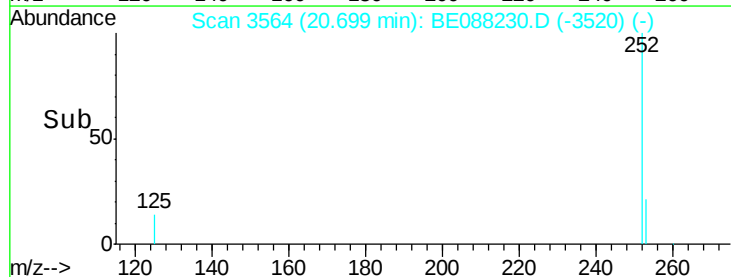
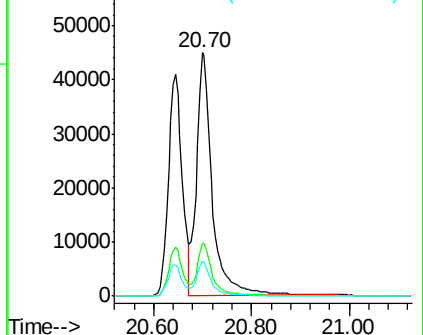
125 14.4 12.1 18.1

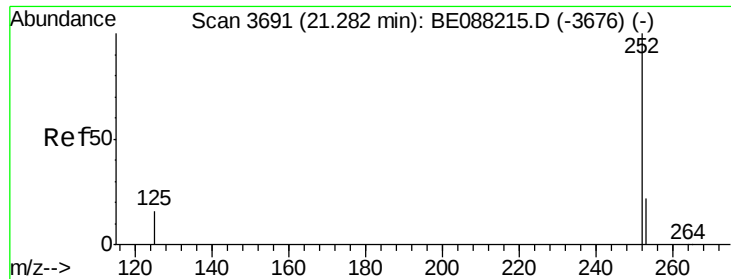


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#25

Benzo(a)pyrene

Concen: 7.09 ng

RT: 21.28 min Scan# 3692

Delta R.T. -0.00 min

Lab File: BE088230.D

Acq: 25 Oct 2014 3:54

Instrument :

BNA_E

ClientSampleId :

PB79839BS

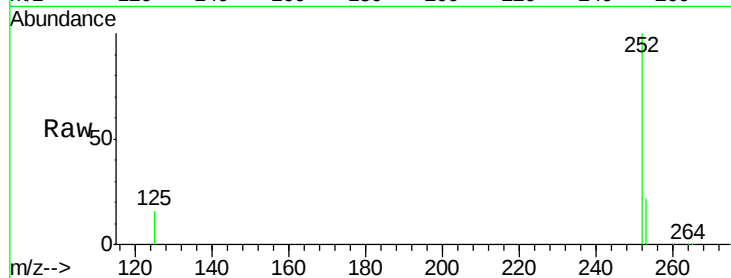
Tgt Ion: 252 Resp: 75736

Ion Ratio Lower Upper

252 100

253 21.6 17.8 26.8

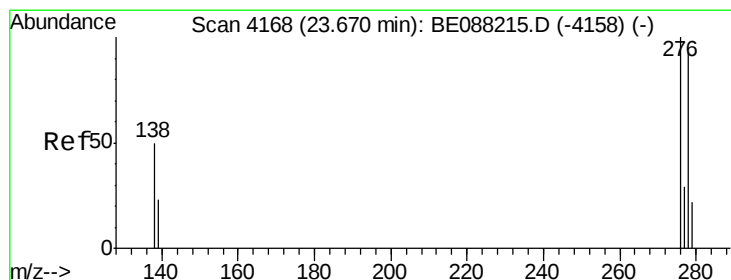
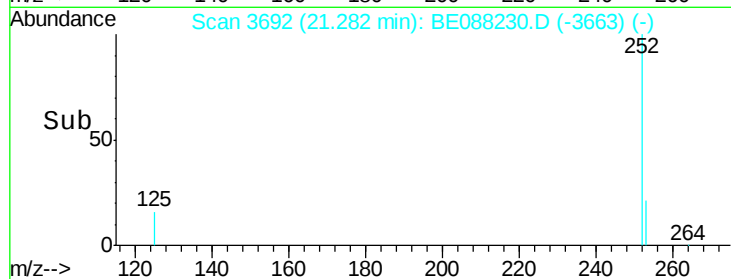
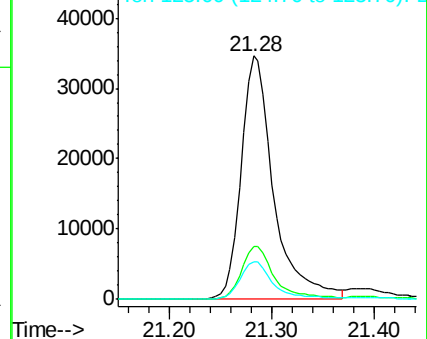
125 15.7 13.5 20.3



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#26

Dibenzo(a,h)anthracene

Concen: 5.41 ng

RT: 23.68 min Scan# 4170

Delta R.T. 0.01 min

Lab File: BE088230.D

Acq: 25 Oct 2014 3:54

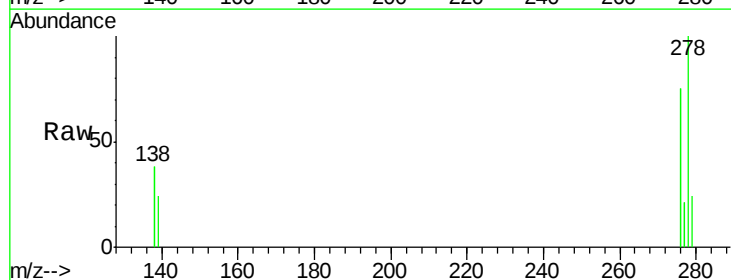
Tgt Ion: 278 Resp: 55005

Ion Ratio Lower Upper

278 100

139 24.4 22.1 33.1

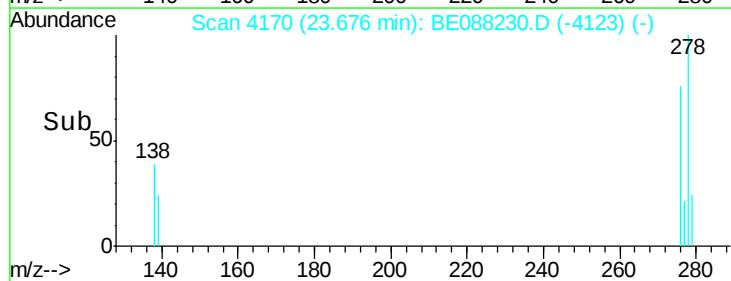
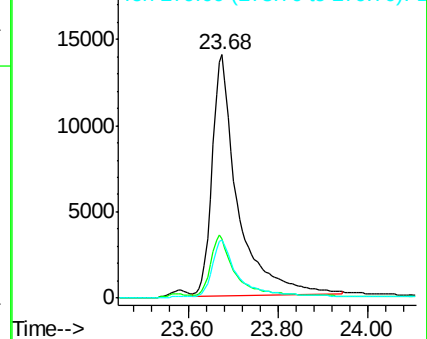
279 24.0 20.2 30.2

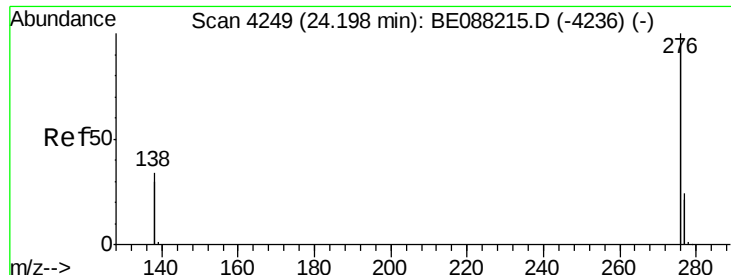


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#27

Benzo(g,h,i)perylene

Concen: 6.37 ng

RT: 24.20 min Scan# 4251

Delta R.T. 0.01 min

Lab File: BE088230.D

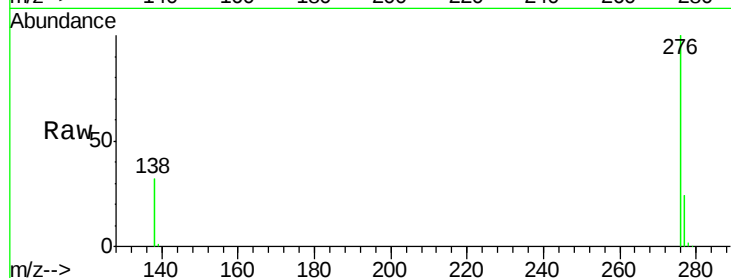
Acq: 25 Oct 2014 3:54

Instrument :

BNA_E

ClientSampleId :

PB79839BS



Tgt Ion: 276 Resp: 258845

Ion Ratio Lower Upper

276 100

277 23.9 19.4 29.2

138 31.8 27.3 40.9

Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

